



POWER KABEL INC.

TYPE MC-HL WELDED ARMOR 4C 8AWG-750KCMIL COPPER XHHW PVC 600V

APPLICATIONS & FEATURES

600 Volt Type MC-HL WELDED ARMOR power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, 250°C for short circuit conditions, and -50°C for cold bend. For uses in Class I, II, and III, Division 1 and 2 hazardous locations per NEC Article 501, 502, and 503. Suitable for VFD application.

INDUSTRY COMPLIANCES

ASTM B3 Standard Specification for Soft or Annealed Copper Wire	ICEA S-58-679 Control Cable Conductor Identification Method 3 (1-BLACK, 2-RED, 3-BLUE)
ASTM B8 Concentric-Lay-Stranded Copper Conductors	ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
UL 44 Thermoset-Insulated Wires and Cables	IEEE 1202 FT4 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)
UL 1309 Marine Shipboard Cable	
UL 1569 Metal-Clad Cables	
UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test	

CONSTRUCTION

CONDUCTORS:	7 strands class B compressed bare copper per ASTM B3 and ASTM B8
INSULATION:	Cross Linked Polyethylene (XLPE) XHHW-2, 30 Mils thick for all cable sizes
GROUNDING CONDUCTOR:	Class B compressed stranded copper with green insulation
FILLER:	Polypropylene filler on cables with 5 or less conductors
BINDER:	Polyester flat thread binder tape applied for cables with more than 5 conductors
ARMOR:	Continuous Corrugated Welded Armor
JACKET:	Polyvinyl Chloride (PVC) Jacket

AWG	No of CONDUCTORS	INSULATION THICKNESS (MILS)	GROUND AWG	ARMOR DIAMETER	JACKET THICKNESS	OUTSIDE DIAMETER	POUNDS PER 1000 FT
8	4	.045"	10	.80"	.050"	.90"	480
6	4	.045"	8	.96"	.050"	1.06"	680
4	4	.045"	8	1.15"	.050"	1.25"	950
2	4	.045"	6	1.35"	.050"	1.45"	1400
1	4	.055"	6	1.38"	.050"	1.48"	1680
1/0	4	.055"	6	1.55"	.050"	1.65"	2040
2/0	4	.055"	6	1.60"	.060"	1.72"	2420
3/0	4	.055"	4	1.74"	.060"	1.86"	3000
4/0	4	.055"	4	1.95"	.060"	2.07"	3650
250MCM	4	.065"	4	2.05"	.060"	2.17"	4190
350MCM	4	.065"	3	2.46"	.075"	2.61"	5820
500MCM	4	.065"	2	2.78"	.075"	2.90"	8100
750MCM	4	.080"	1	3.38"	.085"	3.55"	12060

All values are nominal and subject to correction.